EL-SEMA

Security Management System

USER MANUAL

Revision 1A

Revision

Revision	Änderungen	Datum / Name
1A	Erste Ausgabe	22.09.05 rp, uw

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1.   Brief Description of the Software

Congratulations on your decision to use EL-SEMA!

As various segments of surveillance and security technology are becoming more specialized, a common trend is also evident: Due to ever more complex and more expansive recording and control tasks virtually no job can now be done without computer technology. The more the individual tasks become functionally different due to specialization, the more the emphasis will be on a common platform – the computer – and the smallest denominator – networking.

In the heterogeneous areas of signal processing, ELTEC Elektronik AG has been developing hardware and software for a wide variety of industry applications for several decades. On the security technology sector, however, more and more systems are being used simultaneously or complimentarily, so that the time for a network-based security management system has come. The need to make this system as protocol-independent as possible and to allow it to cross over hardware and interface applications, is being fulfilled due to the solution's modular structure.

This software allows you to access, manage and control the functional elements of your security technology from a transparent user surface. With the **EL-SEMA Viewer** you can access various servers via existing networks and analyze the connected components in groups and views you define in a modular fashion. The user can arrange the overview and analysis displays within his or her individual or partner authorizations at his or her discretion and they are saved when the application is closed.

EL-SEMA's modular structure as well as its flexibility, which allows the adaptation of the software to your specific needs, will certainly convince you!

Please remember that this manual has been designed to assist the end user. Prior to the initial operational start up of an EL-SEMA system or system bundle we, thus, recommend your network administrator or a person with similar responsibilities peruse the separately available *Administrator Documentation* if the system is not delivered pre-configured for the individual environment where it is to be used.

The software can be used under Windows and Linux-operating systems. Special information on workstation installation and utilization under Linux that deviates from the general information and does not refer only to minor differences in appearance, are marked **[LINUX]** in the text.

The user installation on your computer requires an already running installed server version and is divided into two main master modules: **EL-SEMA Viewer** and **EL-SEMA Config**.

Please contact your respective network administrator to obtain information on your local network that may be required for installation.

This User Manual was designed to enable the software user to install the software to the workstation, make it operational and work with it without third party assistance. The objective is to provide a transparent guideline on the functions that are available in the basic version and where you can find respective commands for your use. If you have any general questions, suggestions, corrections and improvement requests, please contact support@eltec.de.

2.   Installation Requirements and Installation Procedure

Depending on the general work load and the applications that run parallel to EL-SEMA, computer requirements fluctuate a lot. The following minimum requirements do, however, apply:

2.1. Hardware requirements

Client-PC and server system:

↪   min. 1.6 GHz CPU.

↪   min. 256 MB RAM.

↪   100 Mbit network card

↪   Connection to an IP network available for joint use

↪   > 11 MB hard disk space for client installation under Windows and additional free memory
     for archiving of the recorded image and video materials

2.2. Software requirements

↪   Current, installed Windows (XP Professional or Windows 2000)
     or Linux-operating system (SUSE 9.X recommended)

↪   Administrator authorizations on the installation computer or sufficient authorizations for software installation

↪   FTP server and MySQL installation and adaptation as stipulated in the *Administrator Documentation*

↪   **EL-SEMA server** installation adapted to your network

↪   Existing IP network connection between server, client and possibly additional connected components,
     such as separate memory systems, cameras, etc. with permanently assigned IP addresses.

2.3. Installation procedure

Start the application setup by double-clicking the file **el-sema-setup-x_xx.exe** (name depends on version) and select the desired language. The language selection impacts many system messages, so that you may possibly get feedback or achieved setups or actions in various languages if you change the language later.

The Setup Assistant starts next, and it will guide you through the next steps.
You will receive information on the progress of the installation and you may choose from various options. During the

main installation steps, you can use buttons "Continue" and "Back" to move back and forth between the installation steps and make changes:

After a message referring to the information in this manual and the Administrator Documentation, continue with "Continue" and install the **EL-SEMA** Security Management System to your workstation computer.

First, confirm or edit the predefined installation path for the program files of the software:
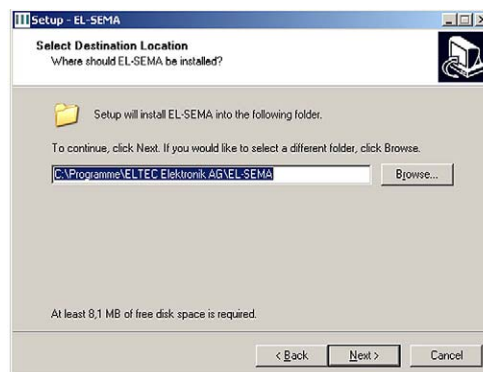
In the following steps, select which software components you would like to install. Thanks to the modular structure of **EL-SEMA** you also have the option to install individual components or to install components later.
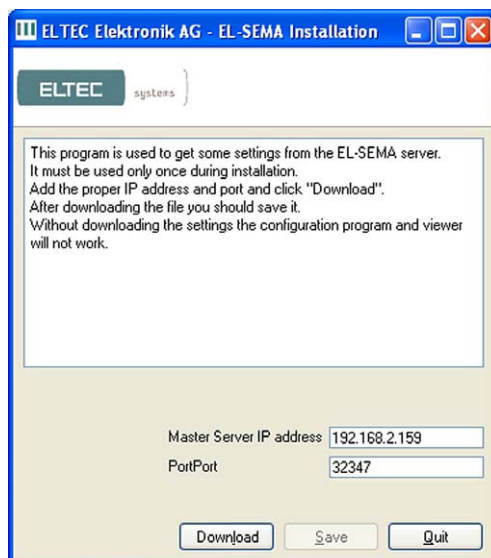
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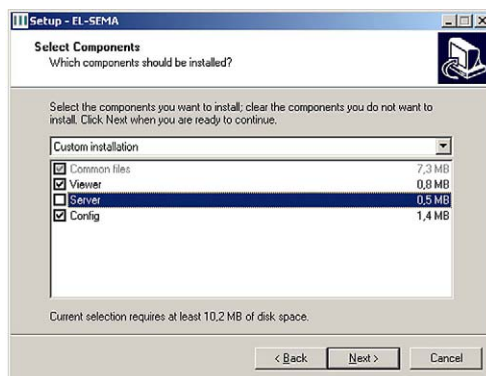
Please remember that depending on your authorizations, you may not be able to access all modules. For example, you cannot set up server functions on your computer if you do not have the required network and administration authorizations.

Also, even if you have network authorizations, you will not be able to directly access a standard master server in your network if you are installing the server and client applications simultaneously on your computer.
Select from the component you want from those available and confirm with "Continue".

If you are not installing a server service, as is common practice with workstation installations, you will be asked for the IP address and the allocated port of the server to be queried in the next dialog field:

(To get this information, contact your network administrator.)

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The master server is not only required physically for the administration of components, but also for saving the basic settings of your client application. By confirming with "Download" you workstation computer will be able to access the required data. When this is done, choose "Save", to make the respective configuration available on your computer. If you omit this step, you will be asked again whether you want to save the file. Please click "Yes".
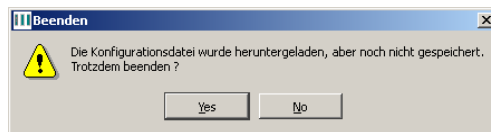
During the installation process you may also be reminded of the following details by text boxes.
Please comply with these instructions!

Before you confirm your selection of program components with "Install", you can once again review the selected options:
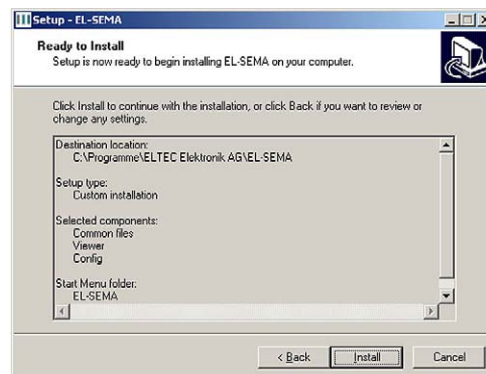
Subsequently, you will be notified that your installation has been completed successfully:
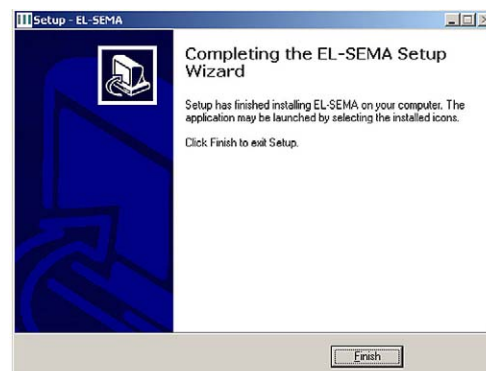
3.   Using the Software: EL-SEMA Viewer

The EL-SEMA Viewer is t he actual program that assists you in controlling and analyzing your devices.

When you start the software, you will first be required to authenticate yourself by completing the login screen.
In this screen you can also choose which master server you are logging in, if several servers are available. Any required
details can be obtained from your network administrator.
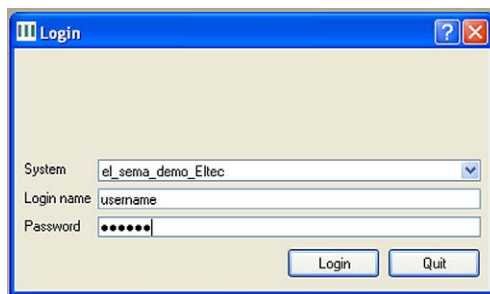
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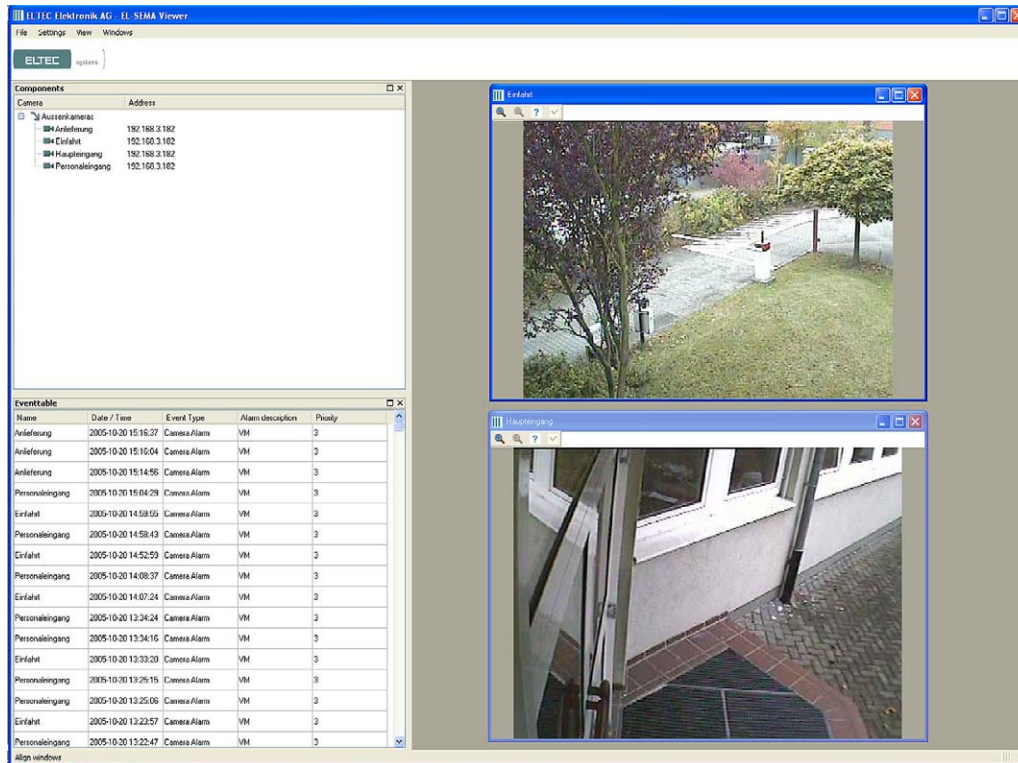## 3.1. Viewer-surface

After you have logged in, you will see a standard view of the program surface with the main components *menu Bar, Event Table, Components window* and *Surveillance window* as well as the status line on the bottom edge of the screen.

The above example shows the **menu bar** containing the menus in the upper edge of the screen.

The menu bar is permanently arranged in this position in the program window of EL-SEMA-Viewer. The remaining windows are variable in terms of size and position, so that you can adjust or close each one of them with your mouse. You can also adjust them via double-click or menu command (see **[2.2.4 Viewer menu: Windows]**). In addition to the respective menu command, you can also open and close the Event Table and the Components window via a "Context menu" by right-clicking any area with your mouse and by selecting or rejecting one of the available alternatives in the opened selection window.

In the example above, left-hand side, you see the **Event Table**. This table shows all recorded events until "Processing" (see **[2.1.2 Viewer menu: View]** and **[Config menu: Filter]**), which have been determined to be important enough to be recorded, in chronological sequence. Regarding priority assignments, please also review **[2.2.1 EL-SEMA Viewer menu: File –> Filter]** and **[2.2.2 Viewer menu: Settings –> Alarm mode]** as well as **[3.2.2 Config menu: Scheduling –> Schedules]**.

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In the **Components** window thereunder you will see the components families, e.g., cameras, structured in individual groups based on master servers.

In the sample figure below, you see a components window "Camera" with the individual cameras (and their IP addresses), that are connected via the "EL-SEMA Development" server. To display a recorded sequence from the Event Table or to display a live image from one of the connected cameras, simply select it by left-clicking it with your mouse and dragging it to the right-hand surveillance frame.
In the displayed surveillance frame (right) a live image from camera "Einfahrt" (Entrance) and a video sequence selected from the recording table ("Event Display") is being shown.
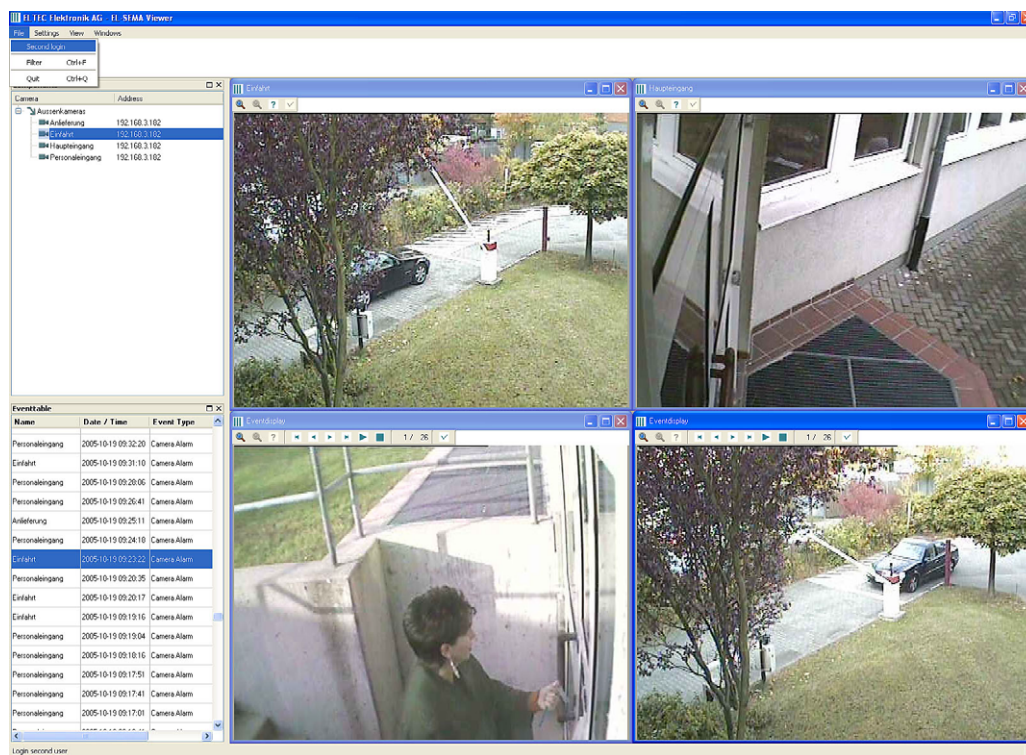
With the menu commands from menu **[2.2.3 Viewer menu: View]** and **[2.2.4 Viewer menu: Windows]** described later you can adapt and optimize the view to your specifications.

3.2. Viewer menus

Via the individual menus in the Viewer you can control your surface and execute the commands described hereafter. Please also observe the shortcuts provided along with the menu commands you can choose from! With these keyboard entries you can speed up your work with EL-SEMA considerably, especially if you are performing frequently recurring tasks. Most of the allocated shortcuts are also described in the explanations of this User Manual.

3.2.1. Viewer menu: File

3.2.1.1. Sub-menu "Second login"

Please also observe the instructions in **[3.2.2 Config menu: File –> Second login]** !
As a rule, you will always login to the Viewer with your "First login" at your workstation.
For certain operations it may be required for security or data protection purposes that they may only be performed if two users login simultaneously.
For this purpose, as described under **[3.2.5 Config menu: User Management]** it can be defined, which users exclusively have the authorization for "First login" or "Second login" or who have both authorizations for individual or all operations.
The **Login** window looks the same for all logins.
To speed things up, you also have the option to access the entry field for the second login by using the keyboard shortcut **CTRL+Z** after you have activated the menu selection with the ALT key or the mouse.
<u>Note:</u> On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

3.2.1.2. Sub-menu "Filter"

This sub-menu describes the targeted search for actions that have triggered a message because based on certain criteria (see also **[3.2.2 Config menu: Scheduling –>** Schedules] they have been classified as *Events* to be recorded as an *Alarm* to be reported. The event list also records "*unspecified*" activities that are reported by an external component, but that are not yet classified as an *Alarm* or *Event*.
As an alternative to chronological processing of the entire event list, you have the option to use the *Filter*-function to select which events are to be displayed in the list.

You can select the following for messages based on the filter criteria shown for display in the example below:

<u>which</u> of the listed components   (e.g., camera "Einfahrt" (Entrance))
<u>during which time periods</u>   (e.g., from 10/20/2005, 02: 00 PM to 10/20/2005, 04: 00 PM)
<u>with which events</u>   (e.g., Camera Alarm)
with <u>what priority</u>   (e.g., Alarm)
<u>pending</u> or already processed   (e.g., no check mark in "signed" = open)

or processed by <u>specific user</u>   (e.g., User "ELTEC" – this selection is activated only,
                                          if a check mark is placed next to "signed")
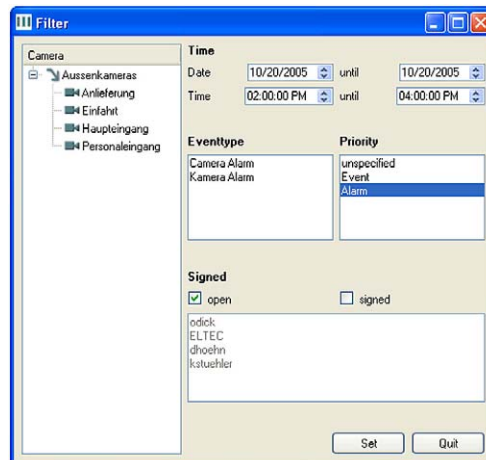
For faster handling, you also have the option to use the keyboard shortcut **CTRL+F** to access the control field for filter settings, after you have activated the menu selection via the ALT key or with the mouse.
<u>Note:</u> On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

3.2.1.3.   Sub-menu "Quit"

By selecting this menu command you exit the application and logins.
For faster handling, you also have the option to use the keyboard shortcut **CTRL+Q** to exit the application, after you have activated the menu selection via the ALT key or with the mouse.
<u>Note:</u> On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

3.2.2. Viewer menu: Settings

3.2.2.1. Sub-menu "Alarm mode"

By selecting menu item "Alarm mode" you determine, that alarm messages highlighted with a red frame are displayed on your workstation as a pop-up on your work screen as soon as they have been recorded by the system. If you keep the complete EL-SEMA Viewer application open in the background, the work surface of the Viewer window will be maximized in the event of an alarm so that the alarm image can be displayed.

Consequently, the application can remain minimized and hidden in the alarm mode until the alarm maximizes it automatically in the foreground.

To determine whether the alarm mode is activated or deactivated, check whether a check mark is present or missing in the menu when you open the sub-menu "Settings –> Alarm mode".

The status line in the bottom right-hand corner of the Viewer window also indicates in red letters that the "Alarm mode" is activated.

In the status line of the Viewer window in the bottom edge of the screen you can always see whether the alarm mode is 1) not activated, 2) activated, or 3) deactivated after alarms have already been registered. This allows you to check at all times if you have missed an alarm during a temporary absence and whether you should check the event list.

<u>Examples:</u>

1) Status line prior to the activation of the alarm mode:

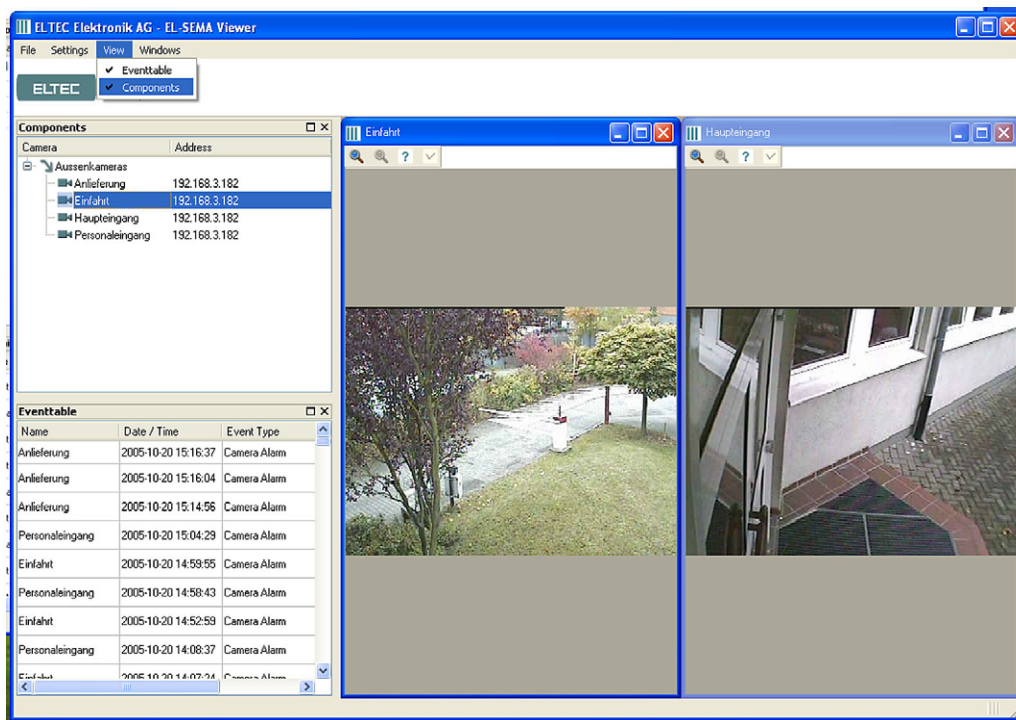2) Status line with activated alarm mode:

Alarme empfangen

3) Status line after deactivation of the alarm mode:

Alarme empfangen   Alarm Modus

3.2.3. Viewer menu: View

As already described in **[2.1 Viewer surface]** you can dynamically divide your work surface into different display windows. The window division you set up in terms of size and position is saved when you exit the application on your computer.
Independent from the two windows that may be positioned discretionarily, the overview window remains constantly active in the "background" – and the division of the individual component displays remains stored within this frame, so that you can arrange your own personal overview sequences.

In the overview window *Alarms* are shown in individual windows (see **[2.1.2 Viewer menu: Settings –> Alarm mode]**) as well as individual display windows, which you can drag there from the Event Table or a Components window for assessment.
In the example shown above you see a Components window for camera "Einfahrt" (Entrance) and above it two windows from the event list, both with the frame name "Event Display".

On the upper edge of the Components window "Einfahrt" you will recognize two icons with magnifier symbols, which you can use to zoom in and out in the active display window. Above these symbols you will see an icon with a question mark. This is the button you can use to display information on the respective component, in this example camera "Einfahrt". To be able to do this, an info URL to an information page must be stored in the respective location **[3.2.3 Config menu: Components -> Cameras]**).

Processing alarms:

The control windows from the event list, which are identified by the frame name "Event Display", are, if they refer to cameras, enhanced with additional features in comparison to the live display windows: In the center of the frame you will see buttons reminiscent of recorder buttons. They allow you to play back the recorded video sequences. On the right-hand side of the operating elements you will also find individual and total image counters for your information. On the right-hand edge of the individual frames you will see another button with a check mark. Use this button to mark information as "signed" after you have reviewed the respective sequence.

3.2.3.1.   Sub-menu "Event Table"

Via the button "Event Table", sub-menu of the View menu, you can open or close the table (as seen in the example above, left) listing the recorded alarms and events, depending on the current status. Of course, you can also use the known buttons of your operating system to maximize windows, reduce the size or close the windows.
You can also set the size and position of the display window at your discretion, unless it is already maximized. Simply adapt the frame with the mouse horizontally or vertically, or move it or fit it into the upper frame automatically by double-clicking it.

The Event Table contains a table listing of the following attributes:

Name:	Shows the component name assigned during set-up
Date/Time:	Shows date and time in US-format, i.e. YYY-MM-DD, HH-MM-SS
Event Type:	Displays component-specifically which event has been recorded by the respective component
Alarm message:	Describes the reason for the alarm, e.g., motion alarm "Video motion" for cameras (VM)
Priority:	Differentiates between "*Alarm*" (Priority 3=high), "*Event*" (Priority 2=moderate) and "*Other Activities*" (Priority 1=unknown)

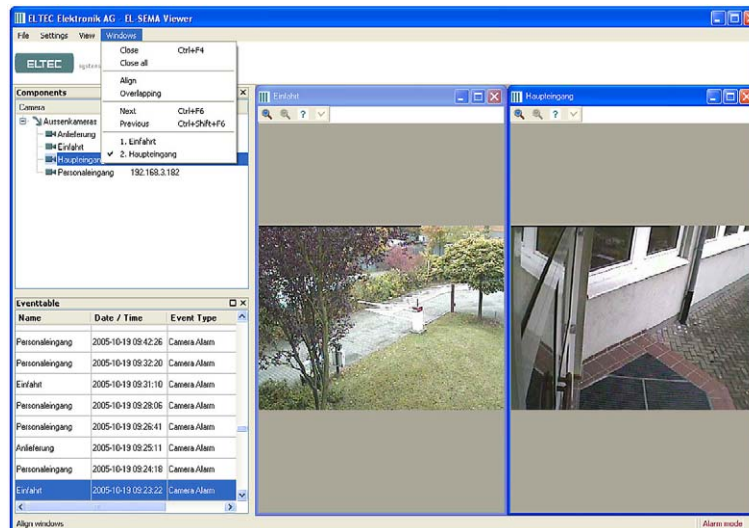### 3.2.3.2.   Sub-menu "Components"

Via the button "Components", sub-menu of the View menu, you can open and close the component tree for each server via the tree-type listing for the connected devices, depending on the current status. You will see all components for which you have been assigned access authorization and you can view the current displays for each device, by dragging the device into the overview window with the left mouse key. For cameras you will now see a live image.

Context menu

As an alternative to making selection via the menu functions in the Viewer main menu "*View*" you can also access a context menu with the right mouse key, which allows you to open the Event Table and the Components window.

3.2.4. Viewer menu: Windows

3.2.4.1. Sub-menus "Close" / "Close all"

Via *Windows* -> *Close* you can close the currently active foreground window, which is identified by a blue frame.
This command affects the individual Alarm/Event windows as well as the Components window which you have opened in the surveillance frame.
Alternatively you can also use the menu command of your operating system, by clicking for example the cross symbol "Close Window" under Windows with your mouse.
For faster processing, you can also press the keyboard shortcut **CTRL+F4** to close the active window after you have activated the menu selection with the ALT key or your mouse or if you have not selected another active foreground window.
Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

Via *Windows* –> *Close all* you can extend the command to all opened component windows in the surveillance frame.
In this case only the Event Table and the Components window remain open.
Note: This command does not result in the processing of alarms but only closes the surveillance windows!

3.2.4.2. Sub-menus "Align" / "Overlapping"

With menu command *Windows* – > *Align* you can arrange open windows within the surveillance frame in such a way that all windows are aligned in the same size next to each other, or displayed in rows or columns without covering each other.
If you have a manageable number of open windows, this command facilitates your work because you will not have to individually arrange and scale the windows pulled from the surveillance frame with your mouse.
This command affects all Alarm/Event windows as well as the Components window you have opened in the surveillance frame.

Note: The window arrangement will be saved when the program is exited.

Via *Windows –> Overlapping* you can arrange open windows within the surveillance frame in such a way that all windows of the same size are displayed behind each other in a format that allows you to read the frame names.
If you have a larger number of open windows, this again facilitates your work, given that you will not have to individually arrange dragged windows with your mouse.
This command also affects all Alarm/Event windows as well as the Components window you have opened in the surveillance frame. The window arrangement will also be saved when the program is exited.

3.2.4.3. Sub-menus "Next" / "Previous"

With menu command *Windows –> Next* you can navigate within the open windows in the surveillance frame in such a way that the next window in the sequence is shown as an active frame in the foreground. The sequence follows the arrangement in the above menu commands "*Align*" and "*Overlapping*" and results from the sequence of opening the individual windows.
If you have a larger number of open windows, this again facilitates your work, given that it allows you to get a quick overview within a large number of open surveillance windows and to activate a desired individual window, i.e., to place it into the foreground.
This command also affects all Alarm/Event windows as well as the Components window you have opened in the surveillance frame.
To speed up the process, after you have activated the menu selection with the ALT key or your mouse, you can also use keyboard shortcut **CTRL+F6** to quickly jump to the next window in the above mentioned sequence after the active window without having to use the mouse. By means of keyboard shortcut **CTRL+Shift+F6** you can also jump to the previous window in the reverse sequence.
Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards), the Shift-key (capital letter key) is often only identified by an upward pointing arrow.

3.2.4.4. "Window selection" based on camera name or event display

Via the menu commands *Windows –> Align/Overlapping* and *–> Next/Previous* you will find a listing of currently open surveillance windows. From this selection, you can select a window with the mouse to bring it into the foreground for assessment. Please remember that all individual windows that you drag from the event list into the surveillance frame are identically named "Event Display". The live windows from the components list are displayed with the respective component name, as shown in the above example of a window for the live image of camera "Einfahrt" (Entrance) with the same name in the upper part of the frame.

# 4. Using the Software: EL-SEMA Config

The earlier described Viewer is used to analyze the signals of the connected and respectively configured components. To adapt the configuration or to expand the components that can be analyzed and that are available in the Viewer for selection, a separate administration tool is at your disposal – the software "EL-SEMA Config".

To execute the configuration program at your workstation, the following requirements must be met:

- o   You must have the authorizations that allow you to execute the respective operations with your login or an additional first or second login.
- o   In the course of the software installation, as described under **[1 Installation]**, you have selected the option "Config" for installation

If you have followed the instructions under **[1 Installation]** for the program group, you can start the program under Windows with your mouse as follows, otherwise do the same analog to your deviating information:
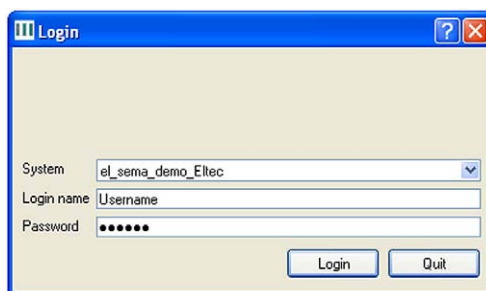Select *Start –> Programs -> ELTEC Elektronik AG –> el-sema-config* .
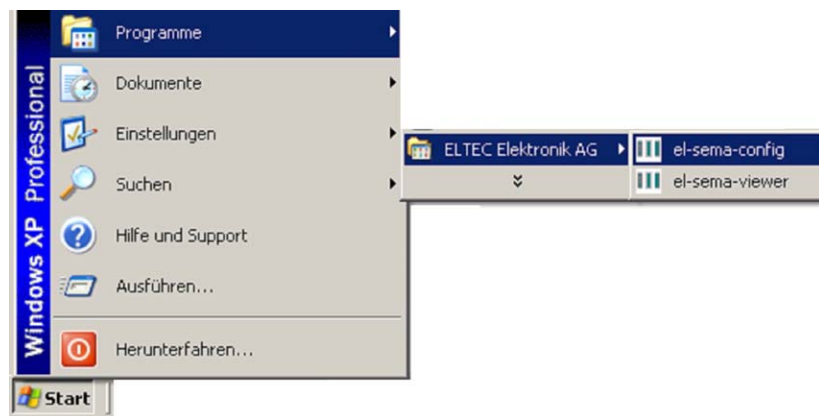
4.1. Config surface
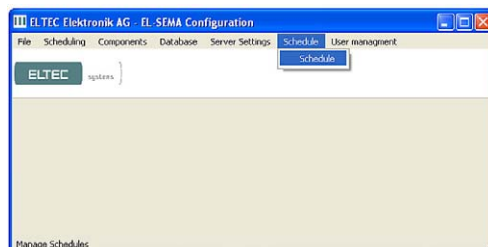
To enable you to work with "Config" according to your defined user profile and the respective authorizations, you will first have to login.

After a successful login you can access the displayed menus and their sub-menus according to your authorizations and perform the respective commands as described under **[3.2 Config menu]**:
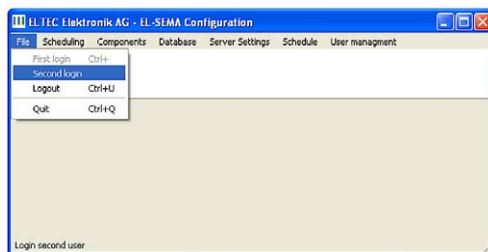
4.2. Config menus

 The menus and sub-menus are always displayed in the same format in "Config", regardless of your login or access authorizations. If an option is not available for logical or authorization reasons, it will be displayed as "inactive" in gray.

4.2.1. Config menu: File

Note: The terms "First login" and "Second login" do not prioritize the authorizations or timely sequence, but describe merely a grouping. In cases where the simultaneous login of two users is required the user from group "First login" simply compliments users from group "Second login" and vice versa to attain a successful login.

4.2.1.1.   Sub-menu "First login"

If you see this menu in the above shown format, you will usually already have logged in with your login data and a "First login" for "Config". If you have only a "Second login" authorization, i.e., an authorization for complimentary login with a "First login". you will simply see the opposite display, i.e., the menu command "Second login" is shown to be inactive (gray) and the command "First login" is active, i.e., it can be selected.
To speed up the process, you can, once you have activated the menu selection via the ALT key or your mouse, use keyboard shortcut **CTRL+E** to access the entry field for the First login.
Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.1.2.   Sub-menu "Second login"

For some operations it may be defined that they can only be executed if two users are logged in simultaneously. For this purpose it is possible, as described in **[3.2.5 User Management]** to define, which user is to be restricted to the "First login" and which user is to be restricted to "Second login" or which user is assigned both authorizations for individual operations.
For all logins the Login window is identical with the one described under **[2 Viewer surface]** for Viewer logins.
To speed things up, you also have the option to access the entry field for the second login by using the keyboard shortcut **CTRL+Z** after you have activated the menu selection with the ALT key or the mouse.
Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.1.3. Sub-menu "Logout"

Via the menu command "Logout" you can void your first or second login after you have completed the operation for which it was needed. If the first and secondary user of EL-SEMA Config are logged out, no further menu functions can be executed, except for the function "Database expansion" in the Database menu.

To speed things up, you also have the option to execute the logout via keyboard shortcut **CTRL+A** after you have activated the menu selection with the ALT key or the mouse.

<u>Note:</u> On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.1.4. Sub-menu "Close"

Via the menu command "Quit " you can exit the program independent from the login performed. This will void all logins. After restarting the program, you will have to login again.

To speed things up, you also have the option to quit the program by using the keyboard shortcut **CTRL+Q** after you have activated the menu selection with the ALT key or the mouse.

<u>Note:</u> On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.2. Config menu: Scheduling
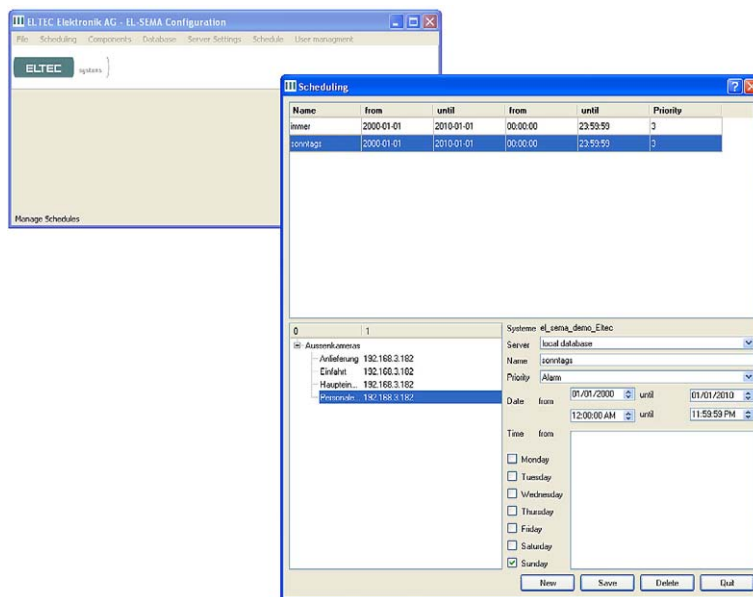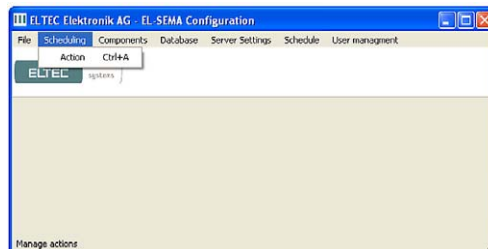
4.2.2.1.   Sub-menu "Scheduling"

Via the menu command "*Scheduling –> Schedules*" you can define *Events, Alarms* or other component recordings are to be processed based on which time criteria, to ensure that they are recorded in accordance to specific rules and can be processed accordingly, for example videos from various cameras.
With the "New" button you can compile additional time schedules and set up the criteria based on the following example:

In the example shown above, a time schedule with the title "Sonntags" (Sundays) is displayed.

Group: This is where you select the component group, e.g., a camera group
                (in the example: "EL-SEMA Development")

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System: This is where the master server is displayed that administrates the relevant components
             – in this example it is identical with the current master server to be selected

 …(in the example: "sema-server-1")

Server: This is where you select the master server that administrates the respective components
             (in the example: "sema-server-1")

Name: This is where you enter the name fort he time schedule generated
             (in the example: "Sonntags" (Sundays))

Priority: This is where you define the priority classification for incoming data (*Event* or *Alarm*),
             which has a deciding impact on further processing.
             In this context, the item with "Priorityt 1" displayed in the overview table refers to "Another Event",
             which has not been classified in the plan), "Priority 2" refers to an event and "Priority 3" to an alarm.

Date: With the date and time information you can define daily time windows within a date period for the jobs
             scheduled, and you can also select them based on week days

 …(In the example: "08/08/2005 – 08/08/2010, 00:00:00 – 23:59:59, Sunday checked")

For the selected criteria and "Sundays" in this case, based on a reading format example, this means:
In the period between August 8, 2005 to August 8, 2010, daily from 00:00:00 to 23:59:59, if the condition "today is a Sunday" is met.

To speed things up, you also have the option to access the Scheduling view by using the keyboard shortcut **CTRL+P** after you have activated the menu selection with the ALT key or the mouse.
Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.3. Config menu: Components
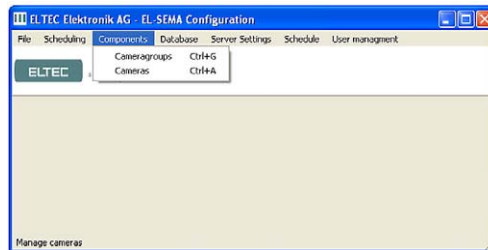
In the Components menu you can incorporate new components into the system and configure existing components. In the above example you see a view of a mere video management system. In this case only the sub-menus "*Camera groups*" and "*Cameras*" are displayed.

4.2.3.1. Sub-menu "Camera Group"
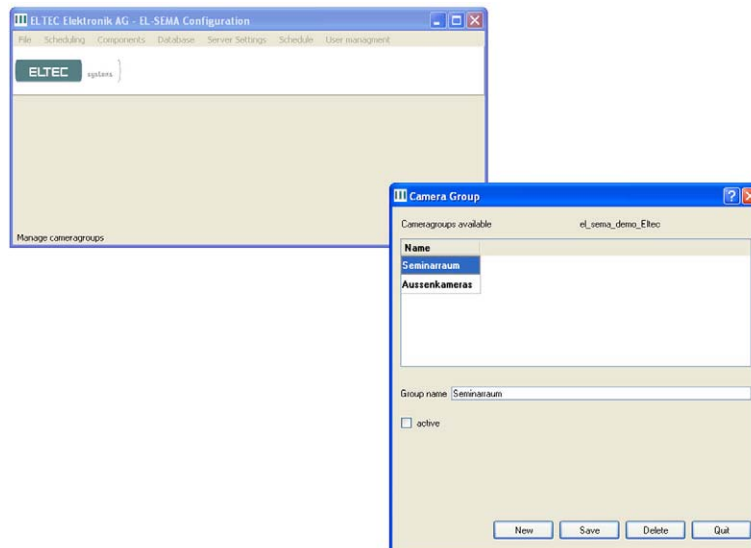
In the Config menu "Components –> Camera groups" you can group the individual cameras connected to each system into groups. To create a new component group in the current system combination, simply click the "New" button, enter a group name into the entry window and select "Save".

<u>Note:</u> Please remember that you can not allocate components twice, i.e., simultaneously to various groups. This limitation has been set up with the intent to prevent the undermining of the authorization concept and to preclude bandwidth and addressing conflicts. This function is available for additional connected components as well. The creation of component groups aims at facilitating the naming and allocation of individual authorizations and alarms based on their actual usage. These usage-specific groupings also simplify orientation in the event list of the Viewer. Moreover,

you can even create component groups while the respective devices are not (yet) physically available. In this case, to prevent error messages, make sure that you remove the "Active" check mark for the respective group.

To speed things up, you also have the option to open the application menu for the grouping by using the keyboard shortcut **CTRL+G** after you have activated the menu selection with the ALT key or the mouse.

<u>Note:</u> On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.3.2.   Sub-menu "Cameras"

In the Config menu "Components –> Cameras" you can configure or newly install cameras.

For this purpose various criteria fields are at your disposal, as shown in the example below for camera "Einfahrt" (Entrance).

The already displayed cameras are shown in an overview table. To adapt them, simply click on the respective line to display the configuration fields for your criteria entries or modifications.

To improve transparency, the overview and selection table shows only the criteria required for the definitive identification of the cameras. In particular this is the assigned "Name", the "Group", to which the camera may already be allocated, the "IP address", i.e., a definitive network address, as well as the "Device No." for multiple device enabled camera concentrators with a joint IP address for several cameras, such as EL-MODEC$^©$.

After selecting a camera, you can change entries or post-enter information into the respective criteria fields. Please remember to place a check mark for "Active" any time you make a change, so that the cameras can be allocated and operated. Then click the "Save" button to lock in the changes you have made.

If you want to set up a new camera, click the "New" button, and follow the steps described above.

You will have to fill in the individual criteria fields for cameras and respectively for other devices as follows:

Name: Enter the name by which the respective camera is to be identified by users and in the menus.

Camera URL: This field assists in naming the network input – i.e., the IP address under which the camera is triggered or analyzed.

Configuration URL: Enter the IP address under which the configuration page of the camera can be accessed via Internet browser.

Info URL: The IP address you enter into this field is accessed when a user clicks on the question mark button in a surveillance window of the respective camera.

Device No.:   If you have assigned a joint IP address with different device numbers for multiple cameras, this number is required to definitively identify and access the respective device – as is the case, for example, with the EL-MODEC camera concentrator, which allows the connection of up to 16 analog cameras.

Camera group: In this selection field you can select from already created groups to allocate a camera that is currently being edited to a camera group.

Camera type: If you are operating various camera types from the network input point of view, you can select the type from a pre-configured list of connection types here.
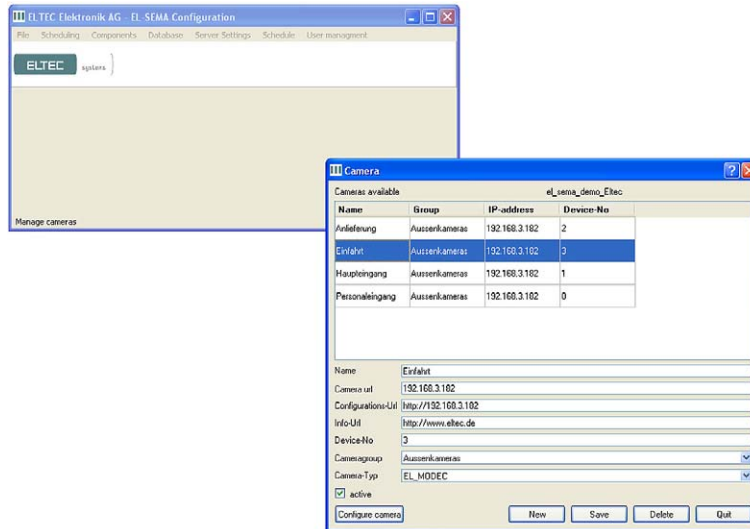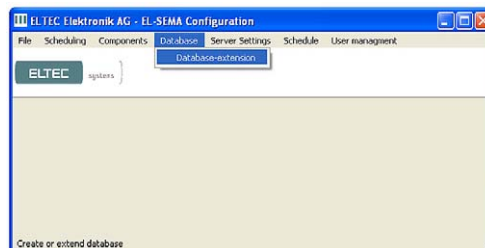

To speed things up, you also have the option to open the application menu for the camera configuration by using the keyboard shortcut **CTRL+A** after you have activated the menu selection with the ALT key or the mouse.
Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.3.3. Camera configuration

In the window displayed above and with the Config menu command "*Components –> Cameras*" you can access the configuration page of the camera in addition to the name, allocation and address entries. Clicking the "Configure camera" button will open the respective page in the Internet browser, if such a page exists, is available and has been entered into the "Configuration URL" field.

4.2.4. Config menu: Database

4.2.4.1.   Sub-menu "Database extension"

In the sub-menu "Database –> Database extension" you can create a new database as well as update your server database, import newly created user accounts along with their authorizations and additionally implemented functions by simply clicking the "Database extension" button with your mouse. As the following figure shows, you can subsequently select the respective server for the EL-SEMA system into which you have logged in from the selection menu.
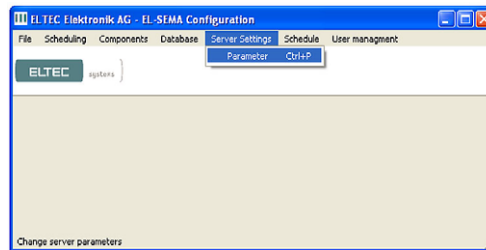To speed things up, you also have the option to open the database extension by using the keyboard shortcut **CTRL+D** after you have activated the menu selection with the ALT key or the mouse.
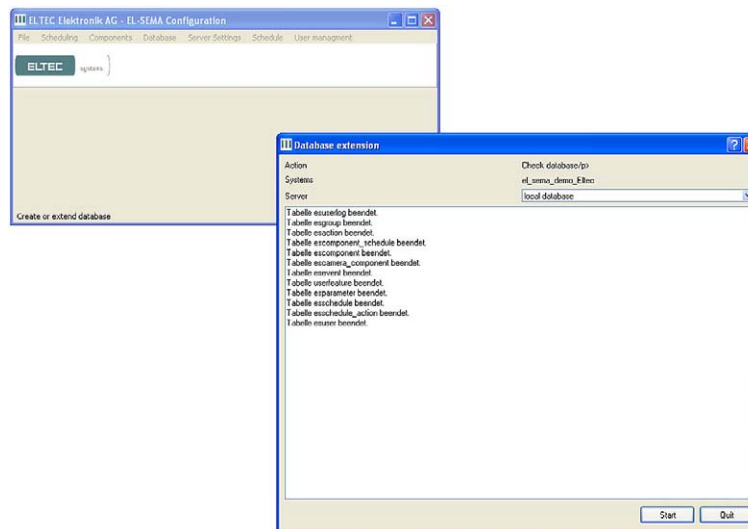
<u>Note:</u> On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

4.2.5. Config menu: Server Settings

 As shown in the above figure, you have the option to influence the attributes of various parameters in the „Server Settings" Config menu.

To speed things up, you also have the option to open the entry window for the parameter settings by using the keyboard shortcut **CTRL+P** after you have activated the menu selection with the ALT key or the mouse.

Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

The figure below provides an example of how you can edit the settings of the upload directory. The entry window for parameter settings is divided into three segments:

In the top field of the window the parameters that can currently be edited are displayed. This table displays columns „*Section*", "*Name*", "*Value*" only. "*Section*" describes the respective parameter function, "*Name*" the relevant criteria and "*Value*" the attribute of the criteria, which you can edit.

In the center below the overview tables you will see an entry field, into which you can enter the changed values, below it you find another field with explanations and information on function and results.
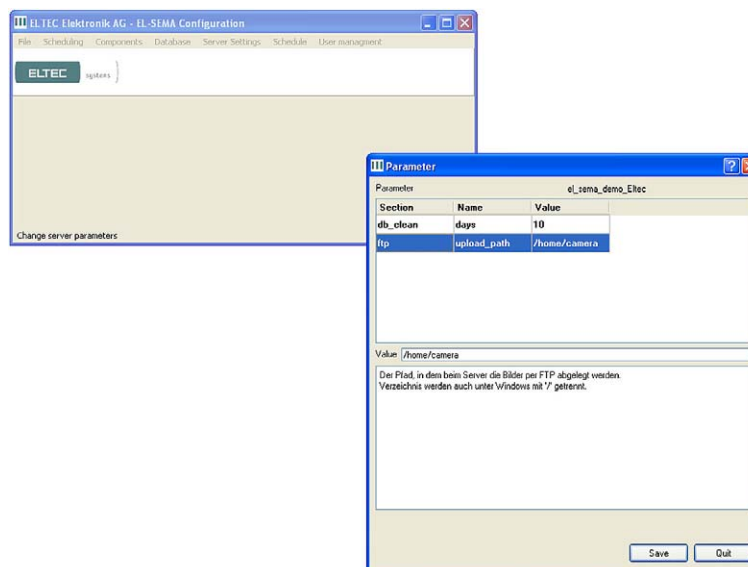
4.2.6. Config menu: User Management
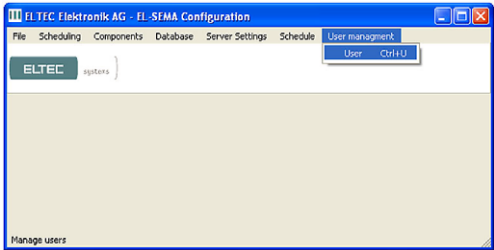

4.2.6.1.   Sub-menu "User"

In the Config menu "User management –> User" you can, as shown in the figure below, adapt the various criteria allocated to user registrations.

The figure provides an example of how you can edit the settings for users "Group1". The entry window is divided into three segments:
The top field of the window lists the already created user accounts in an overview table. This table only lists columns *"User name"*, *"Name"*, *"First Name"*. *"Username"* refers to the user account, *"Name"* and *"First Name"* to the actual first and last name of the user, if the user is an actual person.
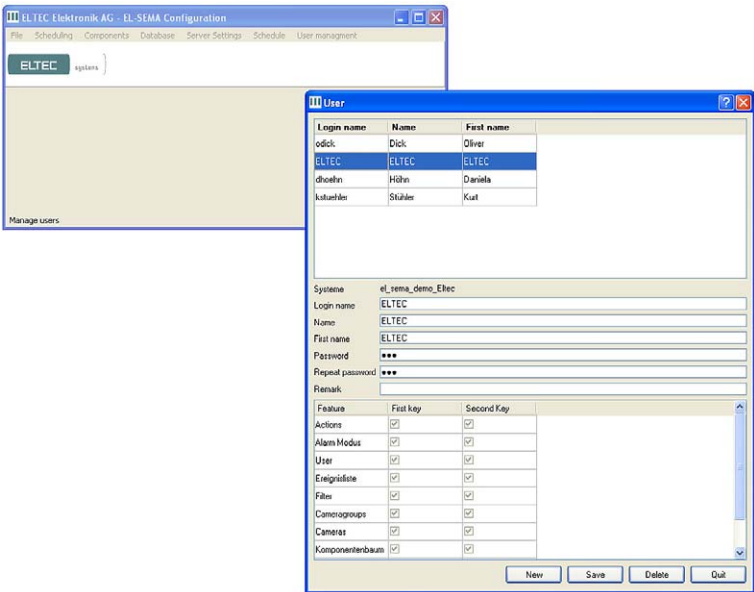
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In the center area below the overview table you will see entry fields, into which you can enter the changed values. Below these, you will find another field with check boxes for he first and second code allocation for various standard operations as described in chapter 2.2.1.

To speed things up, you also have the option to open the entry window for the user management by using the keyboard shortcut **CTRL+B** after you have activated the menu selection with the ALT key or the mouse.

Note: On some keyboards, the CTRL key is also called "Strg" (e.g., German keyboards).

NOTES